CLAIMS

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- 1. A method for slowing or arresting the progression and/or effecting regression of atherosclerotic plaque in a mammal, the method comprising the steps of
 - a) administering to the mammal an effective amount of a binding agent having a binding site specific for integrin alpha 10 chain or nucleic acid encoding said chain on the cell surface or intracellular of said mammal,
 - b) scoring the progression and/or regression of atherosclerotic plaque, and
- c) correlating the scoring in b) above to slowing or arresting the progression and/or effecting the regression of said atherosclerotic plaque.
 - 2. The method according to claim 1, wherein the cell surface is the cell surface of a smooth muscle cells.
- 15 3. The method according to claim 1, wherein the binding agent has a binding site intracellular of a smooth muscle cells.
 - 4. A method for treating atherosclerosis in mammals in the need thereof, the method comprising the step of administering to the mammal an effective amount of a binding agent having a binding site specific for integrin alpha10 chain on the cell surface or intracellular of said mammal.
 - 5. A method for diagnosing a mammal who has or may be at risk of developing atherosclerosis, the method comprising the steps of
 - a) determining the amount of integrin alpha10 chain in a mammal.
 - b) scoring the amount of integrin alpha10 chain in said mammal, relative to a control,
 - c) correlating the amount obtained in step b) above with amounts obtained from the control to determine whether the mammal has or is at risk of developing atherosclerosis.
 - 6. The method according to claim 5, wherein the determining is performed in vivo.
 - 7. The method according to claim 5, wherein the determining is performed in vitro.
 - 8. The method according to any of claims 5-7, wherein determining of the amount of integrin alpha10 chain further comprises contacting the integrin alpha10 chain with a binding agent having a binding site specific for said of integrin alpha10 chain.

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- 9. A method for detecting atherosclerotic plaque in a mammal, the method comprising the steps of
 - a) determining the amount of integrin alpha10 chain in a mammal,
- 5 b) scoring the amount of integrin alpha10 chain in said mammal, relative to to a control, and
 - c) correlating the amount obtained in step b) above with amounts obtained from the control to detect said atherosclerotic plaque in the mammal.
- 10 10. The method according to claim 9, wherein the determining is performed in vivo.
 - 11. The method according to claim 9, wherein the determining is performed in vitro.
- 12. The method according to any of claims 9-11, wherein determining of the amount of integrin alpha10 chain further comprises contacting integrin alpha10 chain with a binding agent having a binding site specific for said of integrin alpha10 chain.
 - 13. The methods according to any of claims 1-12, wherein the mammal is a human.
 - 14. The methods according to any of claims 1-12, wherein the mammal is a mouse.
 - 15. Use of integrin alpha10 chain for slowing or arresting the progression and/or effecting regression of atherosclerotic plaque.
 - 16. Use of integrin alpha10 chain for the preparation of a composition for the treatment of atherosclerosis.
 - 17. Use of integrin alpha10 chain for diagnosing atherosclerosis.
 - 18. Use of integrin alpha10 chain for detecting atherosclerotic plaque.